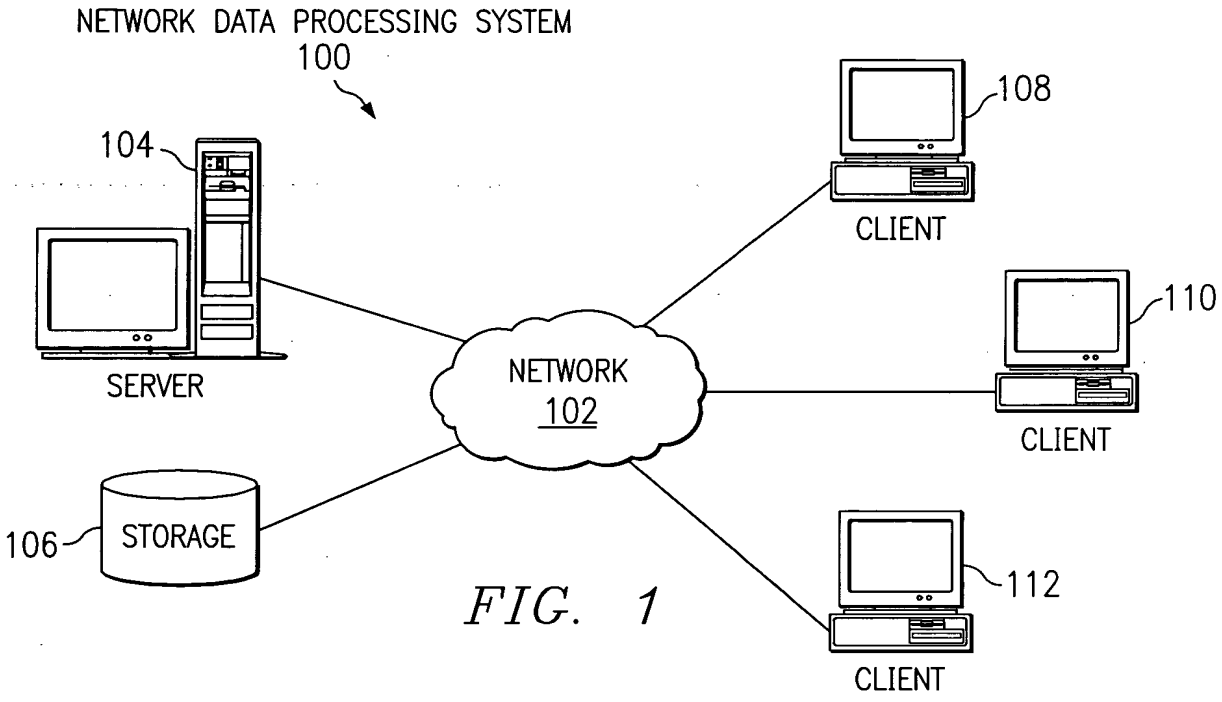

NETWORK DATA PROCESSING SYSTEM
100
104
SERVER
108
CLIENT
110
CLIENT
NETWORK
102
106
STORAGE
112
CLIENT

FIG. 1

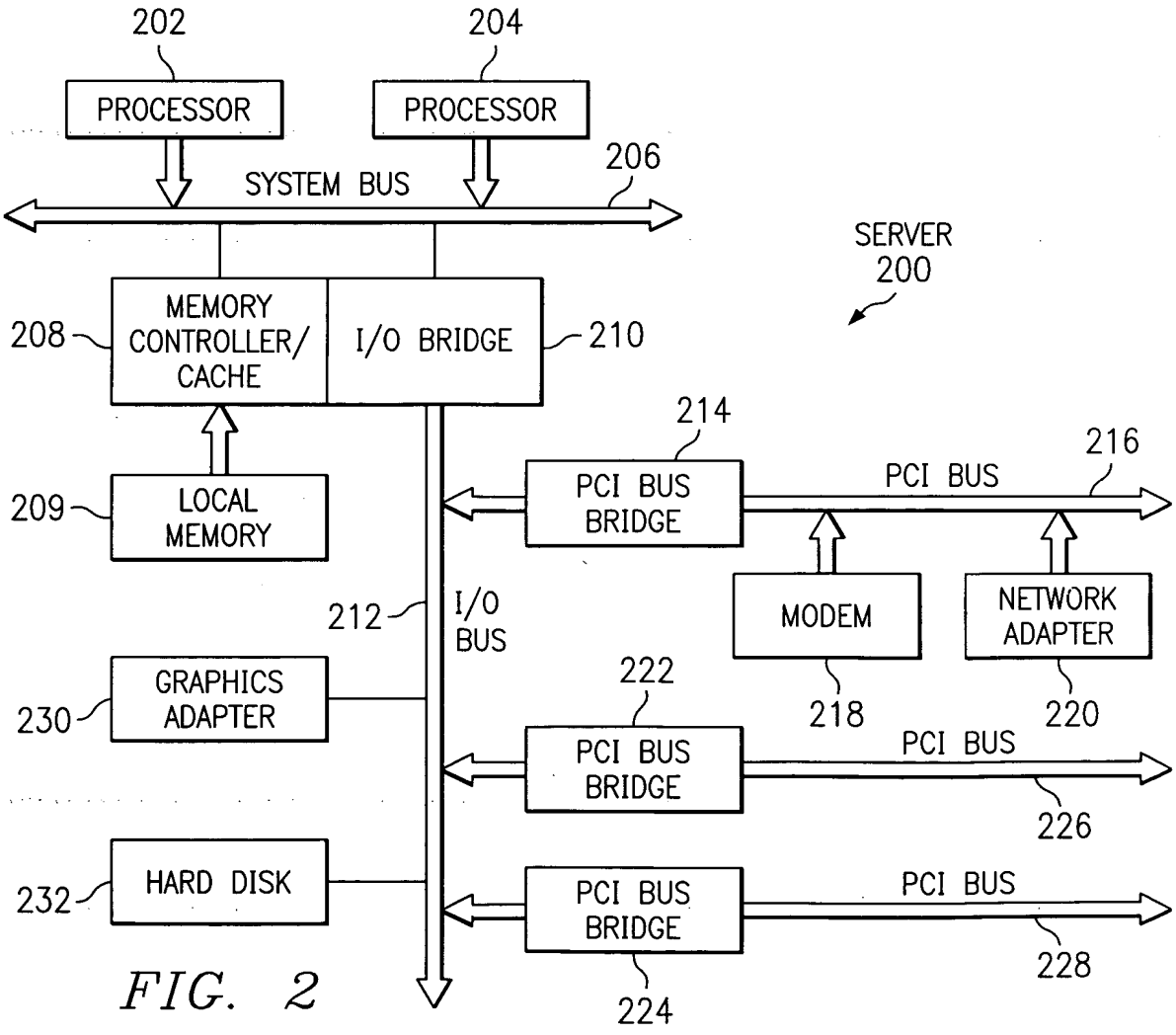

202
PROCESSOR
204
PROCESSOR
206
SYSTEM BUS
SERVER
200
208
MEMORY
CONTROLLER/
CACHE
I/O BRIDGE
210
214
216
PCI BUS
BRIDGE
PCI BUS
209
LOCAL
MEMORY
212
I/O
BUS
MODEM
NETWORK
ADAPTER
222
218
220
GRAPHICS
ADAPTER
230
PCI BUS
BRIDGE
PCI BUS
226
232
HARD DISK
PCI BUS
BRIDGE
PCI BUS
228
224

FIG. 2

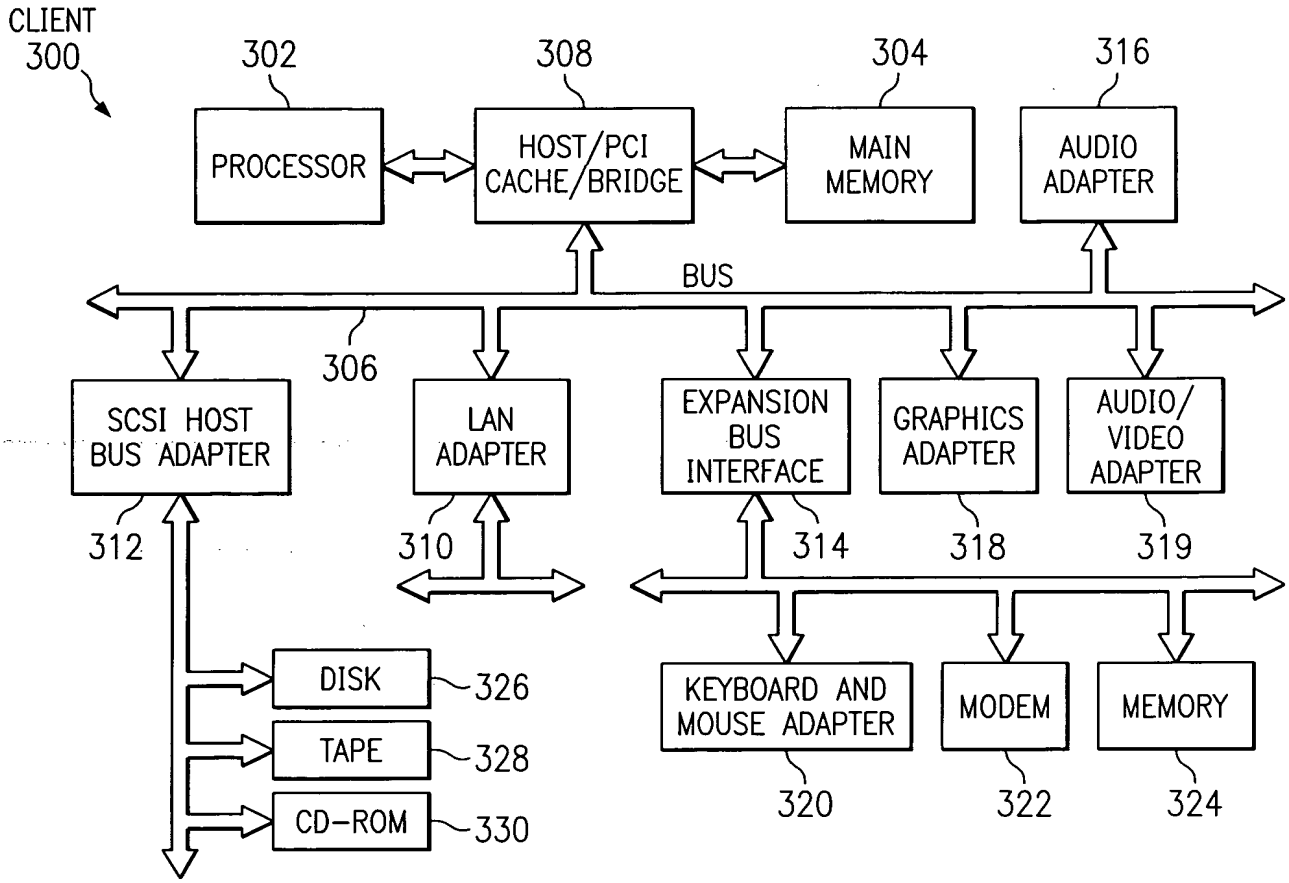


FIG. 3

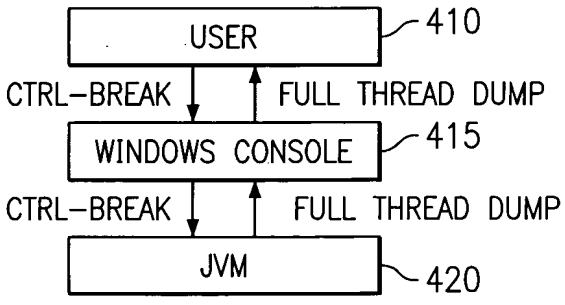


FIG. 4A
(PRIOR ART)

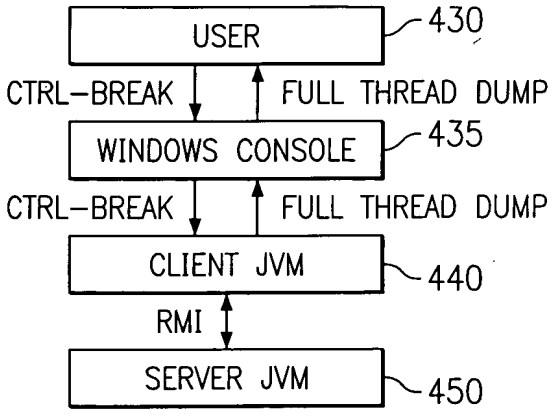


FIG. 4B
(PRIOR ART)

FIG. 5

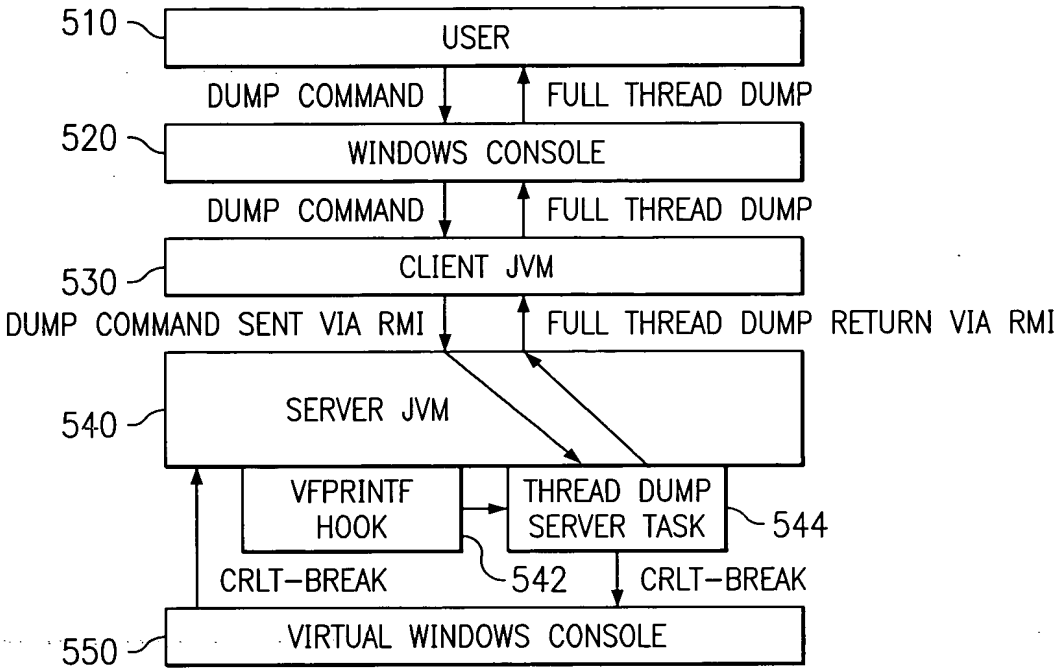

510
USER
DUMP COMMAND
FULL THREAD DUMP
520
WINDOWS CONSOLE
DUMP COMMAND
FULL THREAD DUMP
530
CLIENT JVM
DUMP COMMAND SENT VIA RMI
FULL THREAD DUMP RETURN VIA RMI
540
SERVER JVM
VFPRINTF HOOK
THREAD DUMP SERVER TASK
544
542
CRLT-BREAK
CRLT-BREAK
550
VIRTUAL WINDOWS CONSOLE

FIG. 6

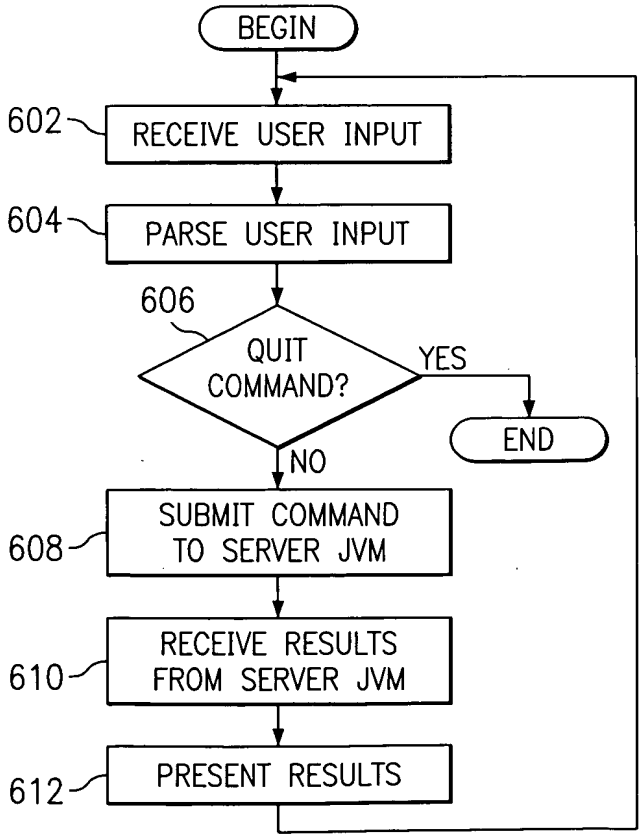
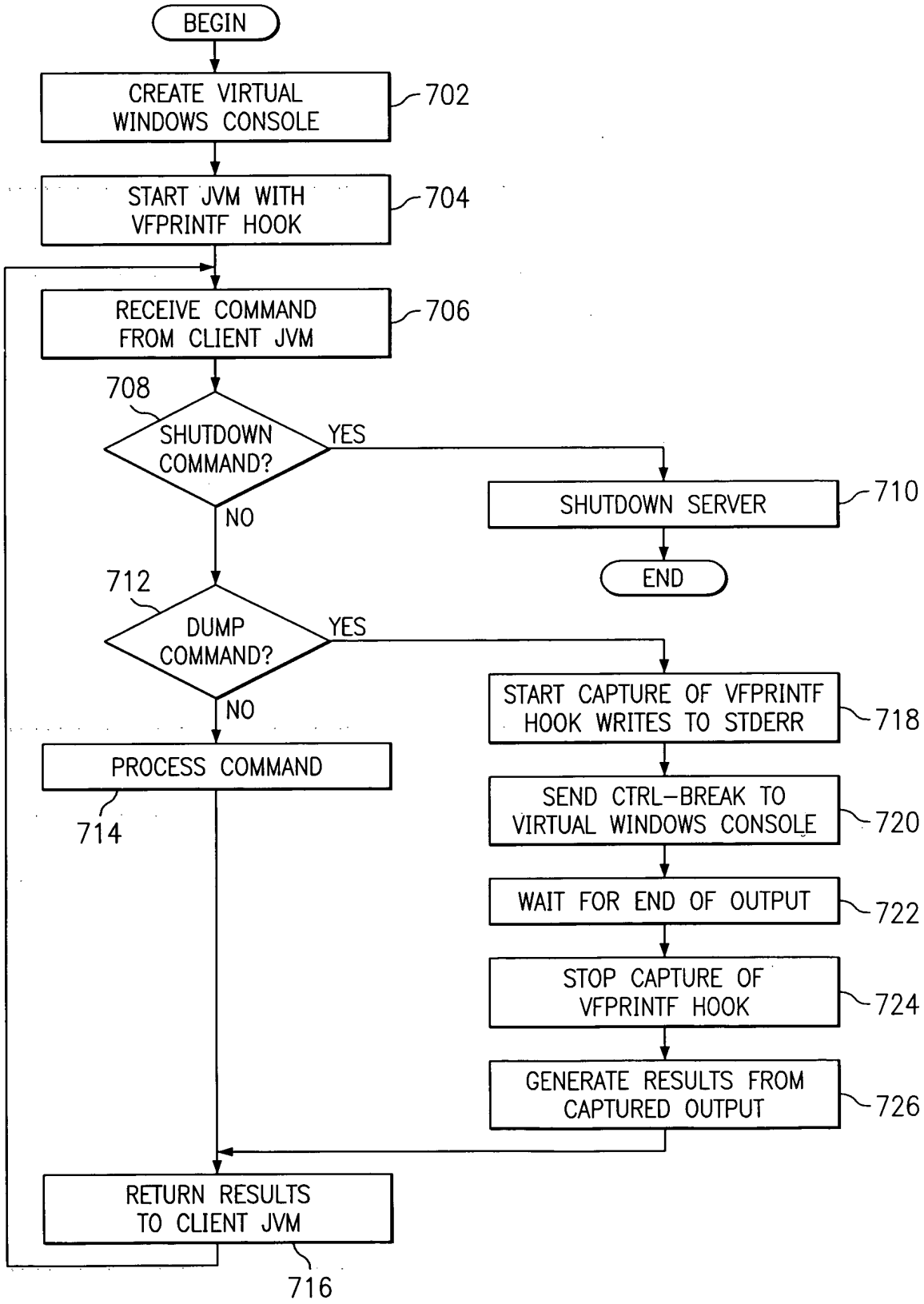

BEGIN
602
RECEIVE USER INPUT
604
PARSE USER INPUT
606
QUIT COMMAND?
YES
END
NO
608
SUBMIT COMMAND TO SERVER JVM
610
RECEIVE RESULTS FROM SERVER JVM
612
PRESENT RESULTS

FIG. 7


BEGIN
CREATE VIRTUAL WINDOWS CONSOLE
702
START JVM WITH VFPRINTF HOOK
704
RECEIVE COMMAND FROM CLIENT JVM
706
708
SHUTDOWN COMMAND?
YES
NO
SHUTDOWN SERVER
710
END
712
DUMP COMMAND?
YES
NO
START CAPTURE OF VFPRINTF HOOK WRITES TO STDERR
718
PROCESS COMMAND
714
SEND CTRL-BREAK TO VIRTUAL WINDOWS CONSOLE
720
WAIT FOR END OF OUTPUT
722
STOP CAPTURE OF VFPRINTF HOOK
724
GENERATE RESULTS FROM CAPTURED OUTPUT
726
RETURN RESULTS TO CLIENT JVM
716